

# Containers and Telcos - Ready to tango?

<https://marketpublishers.com/r/CB4EC0EE76EEN.html>

Date: June 2019

Pages: 127

Price: US\$ 4,695.00 (Single User License)

ID: CB4EC0EE76EEN

## Abstracts

In theory, the value-proposition of containers is crystal clear - ridding the network function of the unwanted overheads of the VM, providing exceptional levels of functional fine-graining through microservices and extracting the fullest from the underlying computing infrastructure by taking the bare metal route of deployment.

In practice however, these seemingly straightforward considerations are exerted to a sustained onslaught by the combined forces of telco-inertia, apprehension and genuine concerns surrounding performance and product-readiness. This potent combination of almost equally poised positives and challenges makes the CNF landscape a very exciting and intriguing landscape to forecast.

Another aspect that needs to be understood in the context of CNFs is that this market will not add to the lure of VNFs. Quite to the contrary, it will cannibalize the VNFs. In essence, CNFs can be looked upon as an outcome of the telco disillusionment with VNFs to an extent.

## Cloud native network functions (CNF) market forecast

Chapters two and three will explore the interrelationship between NFV and containers, highlighting the drivers and challenges for containers. Chapters four and five will examine the initiatives of vendors and telcos.

Chapter six covers quantitative forecasts. It covers fourteen CNFs – load balancing, routing, switching, IP multimedia subsystem (IMS), evolved packet core (EPC), radio access network (RAN), session border controller (SBC), customer premise equipment (CPE), domain name server (DNS), firewall, IPsec, voice over IP (VoIP) and testing.

Individual CNF market is broken down by container morphology, implementation

methodology and geographical region.

Container morphology includes provisioning and runtime; orchestration; and application deployment. Implementation methodology includes VM and bare metal. Geographical regions include North America (NA); Europe Middle East and Africa (EMEA); Asia Pacific (APAC); and Caribbean and Latin America (CALA).

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